
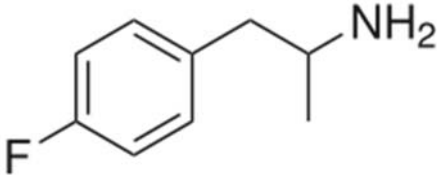


	Substance briefing: 4-FA
	This technical folder provides information on 4-FA . The information provided is based on a number of existing data sources and work undertaken as part of the I-TREND project. Research informing the folder includes an analysis of user discussions on popular Czech drug forums, an analysis of marketing on popular Czech Republic, e.g. English speaking web shops selling the substance, and scientific laboratory analysis of the compound through test purchasing of the substance from Czech web shops.
1	Substance name(s)
1.1	Chemical name: 1-(4-Fluorophenyl)propan-2-amine
1.2	Popular/street/slangname(s): Users on forums did not have a slang/street name for this product.
1.3	Other name(s): 4-Fluoroamphetamine, para-fluoroamphetamine, 4-FMP
1.4	Branded products in which the substance was found following analysis:
1.5	Branded products advertised as containing the substance on web shops: Czech web shop analysis found no web shop advertised branded products as containing <i>4-FA</i> substance.
1.6	Branded products discussed as containing the substance on drug forums: No branded products were discussed as containing 4-FA.
2.	Classification and effect

2.1	<p>Classification and effect confirmed through substance analysis</p> <ul style="list-style-type: none"> • Phenethylamine 								
2.2	<p>Classification and effect referred to by users of drug forums</p> <ul style="list-style-type: none"> • Other: Fluoroamphetamines 								
2.3	<p>Classification and effect used in the marketing of the product on web shops</p> <p>The 4-FA was classified as a research chemical according to an analysis of Czech web shops. The web shops' analysis found two web shops selling 4-FA under a 'stimulant' category. Czech analysis did not find any additional or further specification of classification for 4-FA described by web shop.</p> <p>Direct Information about effects was provided by no web shop. Two web shops used indirect information about effects and described 4-FA as a substance 'comparable to cocaine or methamphetamine'</p> <p>NB: See reference list for sources related to classification (e.g. pharmacological studies, case studies, etc...)</p>								
3	Potential risks associated with use of the substance								
3.1	<p>General risks associated with the substance: long acting CNS stimulant; few animal studies showed 4-FA to be rather more toxic than amphetamine, but other pharmacological characteristics were comparable;</p>								
3.2	<p>Users point of view on the substance and risk perception</p> <p>4-FA was discussed on Czech forums, risk perception was not discussed. 4-FA seen as stimulating drug , relatively potent, users are warning from mistaking with 4-FMA, which is considered as much weaker substitute.</p>								
4	Legal status and identification of the substance								
4.1	Legal status/acts/laws in Czech republic is ongoing, so far not controlled								
4.2	<p>List of first identification and reporting to the EMCDDA by a national Reitox Focal Points</p> <table border="1"> <thead> <tr> <th>Country</th> <th>Dates</th> </tr> </thead> <tbody> <tr> <td>Czech republic 2012</td> <td>17,88 g seizure</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>	Country	Dates	Czech republic 2012	17,88 g seizure				
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Czech republic 2012	17,88 g seizure								

5	Photographs of the substance					
5.1	Photograph of the substance purchased for laboratory analysis: 					
5.2	Photo/Printscreen of the product from the webshop:					
6	Chemistry					
6.1	Chemical Abstracts Service (CAS) registry number: CAS 459-02-9					
6.2	Chemical information: An analog of amphetamine, which is a central nervous system stimulant.					
6.2	Structure (picture of structural formula) 					
6.3	Molecular mass 153,20 g/mol					
6.4	Structural comparison with a related substance : 4-FMP is an analog of amphetamine, which is a central nervous system stimulant.					
6.5	(Insert pictures of developed formula of this original substance)					
7	Analytical composition: results of substance analysis carried out from the sample purchased online.					
7.1	Details of laboratory analysis technique used: Mean (%) = (sd.= .) (N sample analysed)					
	Webshop	Country (IP address)	Country (package origin)	Form	Substance named on package/webshop	Confirmed substances
	1				benzofury	6 APB
	1				Mephedrone	Mephedron

						e											
	2																
	2																
7.2	Details of laboratory analysis technique used:																
7.3	Substance marketing details <table border="1"> <thead> <tr> <th>Powder/crystal</th> <th>Euros</th> </tr> </thead> <tbody> <tr> <td>minimum price per gram</td> <td>€16</td> </tr> <tr> <td>maximum price per gram</td> <td>€20</td> </tr> <tr> <td>mode price per gram</td> <td>€20</td> </tr> <tr> <td>mean price per gram</td> <td>€18,7</td> </tr> </tbody> </table>							Powder/crystal	Euros	minimum price per gram	€16	maximum price per gram	€20	mode price per gram	€20	mean price per gram	€18,7
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8	Price and marketing strategies on Czech web shops selling the substance																
8.1																	
8.2	<p>Description of availability and marketing strategies on Czech web shops selling the substance:</p> <p>The 4-FA was available to purchase (28.5.2015) in 3 web shops of 4 web shops where substance was found¹.</p> <p>Czech web shop marketing analysis indicated no shop which offered discount for orders.</p> <p>Free gift was not promoted by any web shop.</p> <p>Free shipping was offering on no web shop. The guarantee of “free reship”</p>																

¹ The total number of web shops selling new synthetic drugs for CZ (16.3.2015) was 33. (For detail information about methodology of monitoring and selecting the web shops see methodology on <http://www.i-trend.eu/>).

For the marketing analysis we chose 15% of the most popular web shops from CZ list of shops. The shops without prices for products and shops which provide just bulk/wholesale order were removed from our selection. In addition another 6 web shops, previously chosen for the purchase of substances, were added to the marketing analysis. The final number of web shops used for analysis was 11. For latter analysis, we use only shops where product was available.

	<p>for orders was provided by two web shops. The same day dispatch was supported by no web shop.</p> <p>Information about 'new' products was mentioned on three web shops.</p> <p>Loyalty program or Reward Point program for customers was available on one web shop.</p> <p>Customer reviews was supported on two web shops.</p>								
8.3	<p>Type of Czech websites selling the product</p> <table border="1"> <thead> <tr> <th></th> <th>No of shops (28.5.2015)</th> </tr> </thead> <tbody> <tr> <td>RC shops</td> <td>3</td> </tr> <tr> <td>Commercial shops</td> <td>0</td> </tr> <tr> <td>Other</td> <td>0</td> </tr> </tbody> </table>		No of shops (28.5.2015)	RC shops	3	Commercial shops	0	Other	0
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Other	0								
8.4	<p>Number of webshops available for Czech with supposed country of origin in the EU selling the products</p> <table border="1"> <thead> <tr> <th></th> <th>No of web shops</th> </tr> </thead> <tbody> <tr> <td>CZ address or phone number on web sites</td> <td>1</td> </tr> <tr> <td>Web shops with CZ IP code</td> <td>0</td> </tr> <tr> <td>Web shops with supposed country of origin in the EU²</td> <td>3</td> </tr> </tbody> </table>		No of web shops	CZ address or phone number on web sites	1	Web shops with CZ IP code	0	Web shops with supposed country of origin in the EU ²	3
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9	Law enforcement and health data								
9.1	<p>Number of law enforcement seizures in Czech Republic in 2013/2014</p> <p>No seizure in 2013 and nor in 2014 was reported.</p>								
9.2	<p>EMCDDA health alerts in Czech republic were in march 2009.</p>								
9.2	<p>Confirmed deaths and acute cases reported in Czech republic were none</p>								

² Including web shops with CZ address or phone number on web sites

10	<p><u>User experiences of the substance: results from an analysis of discussions Czech Drug Forums</u></p> <p>Methodological comment: The information below is based on an analysis of 2 drug forums, 19 forum posts and 13 forum users.</p>
10.1	<p>Dosage specified by drug forum users (n = number of quotations)</p> <ul style="list-style-type: none"> • <i>Initial Dosing: There was no discussion on initial dose (n= 0)</i> • <i>Boosting: There was no discussion on boosting dose (n= 0). It seems that this substance is used usually just once per occasion, no boosting or bingeing pattern was identified.</i> • <i>Threshold: There was no discussion on threshold dose (n= 0)</i> • <i>Light: As initial “weak” dosing amount of 80mgs was mentioned on drug forums. Perceived as relatively potent. 80mgs were used orally and the user could observe stimulation, energy and talkativeness, bigger amount will be used by the user in the future. (n= 1)</i> • <i>Common: As common dose that should deliver desired effects 200-300mg was mentioned. Overall described as relatively potent, weak effects at this dose later explained by using of substitute (4-FMA) (n= 2)</i> • <i>Strong: There was no discussion on strong dose (n= 0)</i>
10.2	<p>Duration</p> <ul style="list-style-type: none"> • <i>Onset: Onset time approx. 30 minutes after ingestion (n =1)</i> • <i>Coming up: : There was no discussion on coming-up(n =0)</i> • <i>Plateau: There was no discussion on plateau (n =0)</i> • <i>Coming down: There was no discussion on coming down (n =0)</i> • <i>After effects: After effects were considered as mild, insomnia (n =2).</i> • <i>Hangover/Day after : There was no discussion on hangover/Day after (n =0)</i>
10.3	<p>Effects reported by forum users (n = 6)</p> <p><i>Physical effects</i></p> <ul style="list-style-type: none"> ○ <i>Loss of body feeling</i> ○ <i>Stimulation</i> ○ <i>Nose burn after snorting</i> <p><i>Psychological effects</i></p> <ul style="list-style-type: none"> ○ <i>Concentration</i> ○ <i>Vigilance</i>

	<ul style="list-style-type: none"> ○ <i>Talkativeness</i> ○ <i>Euphoria</i> ○ <i>Empathy</i> ○ <i>Better music appreciation</i> ○ <i>Insomnia</i> <p><i>Sought/expected</i></p> <ul style="list-style-type: none"> ○ <i>Stimulation</i> <p><i>Desired</i></p> <ul style="list-style-type: none"> ○ <i>Stimulation, talkativeness</i> <p><i>Undesired</i></p> <ul style="list-style-type: none"> ○ <i>Insomnia</i> ○ <i>Weak effects were explained by mistake with 4-FMA</i>
10.4	<p>Tolerance</p> <p><i>Tolerance was not discussed in Czech drug forums.</i></p>
10.5	<p>Route of administration (n =2)</p> <ul style="list-style-type: none"> ● <i>Ingestion: Two users describe ingestion of substance, one in a pill form (n =2).</i> ● <i>Snorting: Three users describe snorting of substance. Burning after use is described. (n =3)</i> ● <i>Rectal: This ROA of 4-FA was not mentioned in Czech drug forums (n =0)</i> ● <i>Inhalation or insufflation: This ROA of 4-FA was not mentioned in Czech drug forums (n =0)</i>
10.6	<p>Others substances referred to in discussion about 4-FA:</p> <ul style="list-style-type: none"> ● <i>Referred to in comparing the effects : 4-FA effects compared to Ethylphenidate as more euphoric (n=1)</i> ● <i>Effects of 4-FA compared as something in between MDMA and mephedrone (n=1)</i> ● <i>Effects compared as softer than traditional speedy drugs, 4-FA is lacking jaw clenching, lip biting and after effects (n=1)</i> ● <i>Effects compared to 3-FA, 3-FA described as “more messy in the head”, 4-FA is more about concentration and vigilance (n =1)</i> ● <i>Compared as much stronger than analogue 4-FMA (n=3)</i> ● <i>Referred to as increasing the effects: Not mentioned on Czech drug forums (n =0)</i> ● <i>Referred to in managing come down: Not mentioned on Czech drug forums (n =0)</i> ● <i>Other substance discussed in the same episode/combo: Not mentioned on Czech drug forums (n =0)</i> ● <i>Referred to as an agonist/ antagonist : Not mentioned on Czech drug</i>

	<i>forums (n =0)</i>
10.7	Appearance and preparation (n =1) Only pill form described once. Snorting of substance presumes it is also sold in a powder form. (n=1)
10.8	Patterns of use/Frequency of use <ul style="list-style-type: none"> • <i>Reports did not give evidence about frequency of use, binge-use was not observed.</i>
10.9	Context of consumption <ul style="list-style-type: none"> • <i>used alone at home(n=1)</i> • <i>Used at a party (n=1)</i>
10.10	User's views and experiences on the online market <i>Forum members mostly discuss reliability of shops and quality of 4-FA they offer. 4-FA is considered as a good quality product that is “hard to get”. Therefore recommendations for good and reliable suppliers are welcome. Quality of 4-FA differs depending on the vendor. Unavailability of 4-FA is often substituted by vendors with a product 4-FMA, that is considered as very weak analogue of 4-FA.</i>
10.11	Harm reduction Message Users do not recommend snorting of the substance because it burns in the nose (n =2). Users warn from mistaking 4-FA and 4-FMA. These substances demand different dosing, 4-FA is considered as relatively potent substance (n=2).
10.12	User profile <i>Forum users discussing 4-FA were mostly looking for a reliable supplier of this substance and their trip reports were very short. Effects, experiences and dosages were discussed very briefly.</i>
11	Useful resources and literature <ul style="list-style-type: none"> ▪ http://en.wikipedia.org/wiki/4-Fluoroamphetamine