



## **Shanghai ForeFront Pharma**

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# Orphan Drug



Treprostinil			
O O O O O O O O O O O O O O O O O O O	Treprostinil sodium 289480-64-4	Hundred gram scale Quality: HPLC NLT 99.0%, individual impurity NMT 0.10%	
	Treprostinil diethanolamine 830354-48-8	Hundred gram scale Quality: HPLC NLT 99.0%, individual impurity NMT 0.10%	
	Treprostinil 81846-19-7	Hundred gram scale Quality: HPLC NLT 99.0%, individual impurity NMT 0.10%	
	Intermediate 101692-02-8	Hundred gram scale Quality: HPLC NLT 99.0%	
	FDF	20mg / 20ml, 200mg / 20ml, injection	
	Indication	Pulmonary Arterial Hypertension (PAH)	

Sapropterin			
О ., ОН	API 69056-38-8	Hundred gram scale Quality: HPLC NLT 99.0%, individual impurity NMT 0.10%	
HN N N OH OH	Intermediate 22150-76-1	Hundred gram scale Quality: HPLC NLT 98.0%	
	FDF	100mg, tablet	
	Indication	Phenylketonuria (PKU)	

Selexipag		
	API 475086-01-2	Hundred gram scale Quality: HPLC NLT 99.0%, individual impurity NMT 0.10%
	FDF	0.2mg, 0.4mg, 1.6mg, tablet
	PIV Offering	Pure form II & form III crystal, amorphous solid dispersion
	505b(2)	New salt
	Indication	Pulmonary Arterial Hypertension (PAH)

Remark: Patented products available for research and development use ONLY as permitted under CFR 35 see 271 (e) (1).



Velpatasvir			
NHCO <sub>2</sub> CH <sub>3</sub> NHCO <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> NHCO <sub>3</sub> CH <sub>3</sub> NHCO <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> NHCO <sub>3</sub> CH <sub>3</sub> NHCO <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> NHCO <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> NHCO <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> NHCO <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> NHCO <sub>3</sub>	API 1377049-84-7	Hundred kilogram scale Quality: HPLC NLT 99.0%, individual impurity NMT 0.30%	
	Velpatasvir solid dispersion with copovidone	Hundred kilogram scale Quality: Assay 50.0±2.0%, HPLC NLT 99.0%, individual impurity NMT 0.30%	
	FDF	SOF (400mg) / VEL (100mg), tablet	
	PIV Offering	Non-infringing API process	
	505b(2)	Innovative Co-crystal	

Voxilaprevir Intermediate		
OH . NH2	Intermediate 1799733-54-2	Kilogram scale Quality: HPLC NLT 98.0%, chiral purity NLT 98.0%

Glecaprevir & Voxilaprevir Intermediate		
H <sub>2</sub> N <sub>4</sub> N <sub>5</sub> S + HCI	Intermediate 1360828-80-3	Kilogram scale Quality: HPLC NLT 98.0%, chiral purity NLT 98.0%

Daclatasvir		
Moc-L-Val N N Val-L-Moc	API 1009119-65-6	Hundred kilogram scale Quality: HPLC NLT 99.5%, individual impurity NMT 0.10%

Ledipasvir			
Valine- L-Moc F F N N Valine- L-Moc Valine- L-Moc	Mono Acetone 1441674-54-9	Hundred kilogram scale Quality: HPLC NLT 99.5%, individual impurity NMT 0.10%	
	Amorphous 1256388-51-8	Hundred kilogram scale Quality: HPLC NLT 99.5%, individual impurity NMT 0.10%	
	Ledipasvir solid dispersion with copovidone	Hundred kilogram scale Quality: Assay 50.0±2.0%, HPLC NLT 99.5%, individual impurity NMT 0.10%	
	PIV Offering	Non-infringing API process and API solid form	

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## Prostaglandin

Bimatoprost		
HO NH HO	API 155206-00-1	Hundred gram scale Quality: HPLC NLT 99.0%, individual impurity NMT 0.15%
	FDF	3ml : 0.9mg, ophthalmic solution
	Indication	Open-angle glaucoma and ocular hypertension Lengthen eyelashes

Latanoprost		
HO HO HO	API 130209-82-4	Hundred gram scale Quality: HPLC NLT 95.5%, meet USP standards
	FDF	2.5ml : 125μg, ophthalmic solution
	Indication	Open-angle glaucoma and ocular hypertension

Lubiprostone		
ОН	API 136790-76-6	Hundred gram scale Quality: HPLC NLT 99.0%, individual impurity NMT 0.10%
HO F F	Indication	Chronic idiopathic constipation Predominantly irritable bowel syndrome-associated constipation in women Opioid-induced constipation