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**Product Data Sheet**

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Product Name: Prostaglandin F2 $\alpha$  serinol amide

Cat. No.: GC18874

**Chemical Properties**

Cas. No. 1135226-99-1

Chemical Name N-[(2-hydroxy-1-hydroxymethyl)ethyl]-9 $\alpha$ ,11 $\alpha$ ,15S-trihydroxy-prosta-5Z,13E-dien-1-amideSMILES O[C@@H]1[C@H](C/C=C\CCCC(N([H])C(CO)CO)=O)[C@@H](/C=C/[C@@H](O)CCCC)[C@H](O)C1Formula C<sub>23</sub>H<sub>41</sub>NO<sub>6</sub> M.Wt 427.6

Solubility DMF: 30 mg/ml,DMSO: 25 mg/ml,Ethanol: 30 mg/ml,PBS (pH 7.2): 5 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

2-Arachidonyl glycerol (2-AG) exhibits cannabinoid agonist activity at the CB1 receptor, is an important endogenous monoglyceride species, and is thus considered to be the natural ligand for the CB1 receptor. 2-AG can also be metabolized by COX-2 and prostaglandin D, E, F, and I synthases to form prostaglandin 2-glycerol (PG 2-glycerol) esters. PGF2 $\alpha$ -SA is a stable analog of PGF2 $\alpha$  2-glycerol ester. The biological activity of PGF2 $\alpha$ -SA has not yet been determined.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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