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- Trockeneiszuschlag
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- Expressversand

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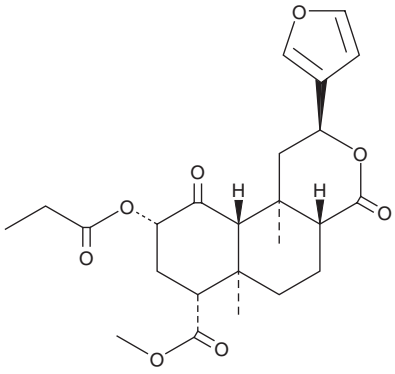
PRODUCT INFORMATION

Salvinorin A Propionate

Item No. 22290

CAS Registry No.:	689295-71-4
Formal Name:	(2S,4aR,6aR,7R,9S,10aS,10bR)-2-(3-furanyl) dodecahydro-6a,10b-dimethyl-4,10-dioxo-9-(1-oxopropoxy)-2H-naphtho[2,1-c]pyran-7-carboxylic acid, methyl ester
Synonyms:	Divinorin A Propionate, Sal A Propionate, Sal-2-propionate, Salvinorinyl-2-propionate
MF:	$C_{24}H_{30}O_8$
FW:	446.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 211, 258, 273 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Salvinorin A propionate is supplied as a crystalline solid. A stock solution may be made by dissolving the salvinorin A propionate in the solvent of choice, which should be purged with an inert gas. Salvinorin A propionate is soluble in organic solvents such as acetonitrile, DMSO, and dimethyl formamide (DMF). The solubility of salvinorin A propionate in acetonitrile and DMSO is approximately 1 mg/ml and approximately 2 mg/ml in DMF.

Salvinorin A propionate is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, salvinorin A propionate should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Salvinorin A propionate has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Salvinorin A propionate is a selective partial agonist at κ_1-opioid receptors (KOR) with a K_i value of 32.6 nM.[1] It inhibits adenylate cyclase (EC_{50} = 4.7 nM) in HEK293 cells transfected with human KOR.[2] It is selective for KORs over μ, δ, and ORL-1 opioid receptors and has no effect at serotonin, dopamine, muscarinic, or adrenergic receptors. In mice, salvinorin A propionate (13 μg, i.c.v.) reduces nociceptive responses in a radiant heat tail-flick assay, though not as potently as salvinorin A (Item No. 11487).[1]

References

1. Ansonoff, M.A., Zhang, J., Czyzk, T., *et al.* Antinociceptive and hypothermic effects of salvinorin A are abolished in a novel strain of κ-opioid receptor-1 knockout mice. *J. Pharmacol. Exp. Ther.* **318(2)**, 318(2) (2006).
2. Chavkin, C., Sud, S., Jin, W., *et al.* Salvinorin A, an active component of the hallucinogenic sage *Salvia divinorum* is a highly efficacious κ-opioid receptor agonist: Structural and functional considerations. *J. Pharmacol. Exp. Ther.* **308(3)**, 1197-1203 (2004).

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