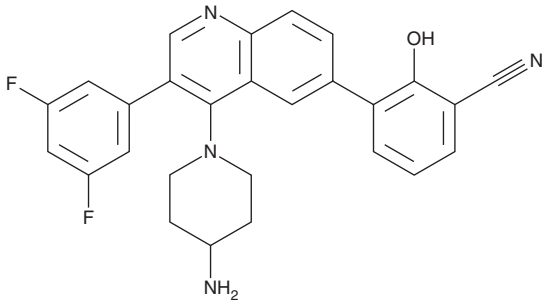
PRODUCT INFORMATION

Paltusotine

Item No. 42041

CAS Registry No.:	2172870-89-0
Formal Name:	3-[4-(4-amino-1-piperidinyl)-3-(3,5-difluorophenyl)-6-quinolinyl]-2-hydroxy-benzonitrile
Synonym:	CRN00808
MF:	$C_{27}H_{22}F_2N_4O$
FW:	456.5
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

Paltusotine is supplied as a solid. A stock solution may be made by dissolving the paltusotine in the solvent of choice, which should be purged with an inert gas. Paltusotine is slightly soluble (0.1-1 mg/ml) in DMSO.

Description

Paltusotine is a nonpeptide somatostatin receptor 2 (SST_2) agonist.[1] It selectively inhibits cAMP production in cells expressing SST_2 over cells expressing SST_1, SST_3, SST_4, or SST_5 (EC_{50}s = 25, >1,000, >1,000, >1,000, and >1,000 nM, respectively). *In vivo*, paltusotine (3, 10, and 30 mg/kg) reduces growth hormone release stimulated by growth hormone-releasing hormone (GHRH) in rats. It also reduces plasma levels of insulin-like growth factor 1 (IGF-1) in beagle dogs.

Reference

1. Zhao, J., Wang, S., Markison, S., *et al.* Discovery of paltusotine (CRN00808), a potent, selective, and orally bioavailable non-peptide SST2 agonist. *ACS Med. Chem. Lett.* **14(1)**, 66-74 (2022).

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