



Product Information

Product ID N6272

CAS No. 324523-20-8

Chemical Name

Synonym SB-262470A Hydrochloride, NPS2143, NPS 2143

Formula $C_{24}H_{25}ClN_2O_2 \cdot HCl$

Formula Wt. 445.38

Melting Point

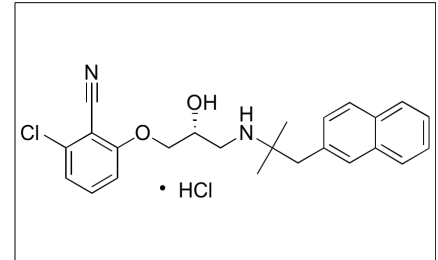
Purity $\geq 99\%$

Solubility Soluble in DMSO (100 mM),
and ethanol (10 mM)

Store Temp $-20^\circ C$

Ship Temp Ambient

Description NPS-2143 is an antagonist at Ca^{2+} -sensing receptors. It displays anti-osteoporotic, neuroprotective, cardioprotective, and antihypertensive activities. This calcilytic increases bone turnover without decreasing bone mineral density. NPS-2143 also inhibits production of amyloid- β (A β) and VEGF and neuronal death in models of Alzheimer's disease. This compound prevents development of pulmonary arterial hypertension (PAH) and right ventricular hypertrophy in vivo. Additionally, NPS-2143 decreases secretion of CCK, inhibits increases in intracellular Ca^{2+} levels, and increases secretion of parathyroid hormone (PTH).



Bulk quantities available upon request

Product ID	Size
N6272	1 mg
N6272	5 mg
N6272	25 mg

References Dal Prà I, Chiarini A, Pacchiana R, et al. Calcium-Sensing Receptors of Human Astrocyte-Neuron Teams: Amyloid- β -Driven Mediators and Therapeutic Targets of Alzheimer's Disease. *Curr Neuropharmacol*. 2014 Jul;12(4):353-64. PMID: 25342943.

Dal Prà I, Armato U, Chioffi F, et al. The A β peptides-activated calcium-sensing receptor stimulates the production and secretion of vascular endothelial growth factor-A by normoxic adult human cortical astrocytes. *Neuromolecular Med*. 2014 Dec;16(4):645-57. PMID: 24948534.

Yamamura A. Pathological function of Ca^{2+} -sensing receptor in pulmonary arterial hypertension. *J Smooth Muscle Res*. 2014;50:8-17. PMID: 24770445.

Nakajima S, Hira T, Hara H. Calcium-sensing receptor mediates dietary peptide-induced CCK secretion in enteroendocrine STC-1 cells. *Mol Nutr Food Res*. 2012 May;56(5):753-60. PMID: 22648622.

Nemeth EF, Delmar EG, Heaton WL, et al. Calcilytic compounds: potent and selective Ca^{2+} receptor antagonists that stimulate secretion of parathyroid hormone. *J Pharmacol Exp Ther*. 2001 Oct;299(1):323-31. PMID: 11561095.

Gowen M, Stroup GB, Dodds RA, et al. Antagonizing the parathyroid calcium receptor stimulates parathyroid hormone secretion and bone formation in osteopenic rats. *J Clin Invest*. 2000 Jun;105(11):1595-604. PMID: 10841518.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.