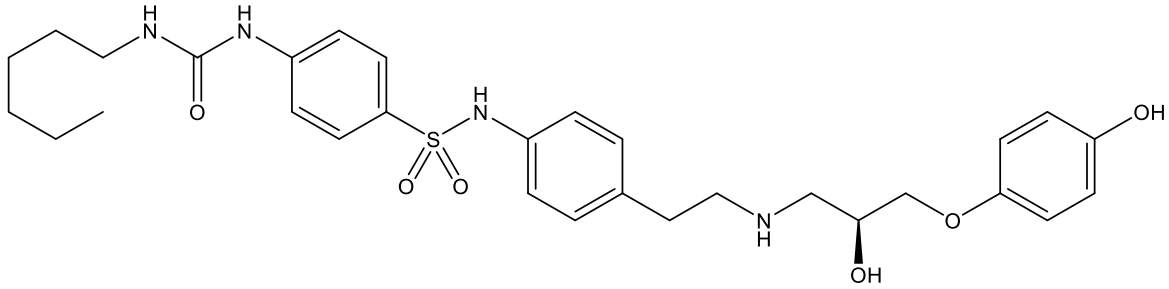
Catalog #10-4229

L-755,507

CAS# 159182-43-1

1-Hexyl-3-[4-[[4-[2-[[((2S)-2-hydroxy-3-(4-hydroxyphenoxy)propyl]amino]ethyl]phenyl]sulfamoyl]phenyl]urea; 4-[[(Hexylamino)carbonyl]amino]-N-[4-[2-[[(2S)-2-hydroxy-3-(4-hydroxyphenoxy)propyl]amino]ethyl]phenyl]benzenesulfonamide

Lot # FBS4033



L-755,507 is a very potent (EC_{50} = 0.43 nM; IC_{50} = 13 nM) human ß3 adrenergic receptor agonist with >440-fold selectivity of ß1/2.[1] It elicited lipolysis and metabolic rate elevation in rhesus monkeys.[2] L-755,507 has been shown to increase homology-directed repair efficiency by 2- and 3-fold in CRISPR gene editing.[3,4]

1) Parmee *et al.* (1998), *Discovery of L-755,507: a subnanomolar human beta 3 adrenergic receptor agonist*; Bioorg. Med. Chem. Lett. **8** 1107
2) Fisher *et al.* (1998), *A selective human beta3 adrenergic receptor agonist increases metabolic rate in rhesus monkeys*; J. Clin. Invest. **101** 2387
3) Li *et al.* (2017), *Small molecules enhance CRISPR/Cas9-mediated homology-directed genome editing in primary cells*; Sci. Rep. **7** 8943
4) Yu *et al.* (2015), *Small Molecules Enhance CRISPR Genome Editing in Pluripotent Stem Cells*; Cell Stem Cell **16** 142

PHYSICAL DATA

Molecular Weight:	584.73
Molecular Formula:	$C_{30}H_{40}N_4O_6S$
Purity:	>98% (HPLC) NMR: (Conforms)
Solubility:	DMSO (>25 mg/mL)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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