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DATASHEET

LUF7982

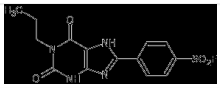
Product overview

Name	LUF7982
Cat No	HB9905
Biological description	Novel, selective A_{2B} covalent ligand (apparent pK_i values at A_{2B}ARs are 8.10 and 9.17 (after 4h), where a K_i shift indicates a covalent mode of action). Displays ~100 -fold selectivity for A_{2B} compared to A_1, A_{2A} and A_3 receptors. LUF7982 covalently targets lysine residue(s) on the receptor and binds persistently in radioligand displacement and wash-out assays. LUF7982 allows for novel ways to interrogate the A_{2B}AR.
	Sold under license from the Oncode Institute and Universiteit Leiden
Biological action	Other
Purity	>95%
Description	Novel Selective A_{2B} covalent ligand. Binds irreversibly.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	4-(2,6-dioxo-1-propyl-2,3,6,7-tetrahydro-1H-purin-8-yl)benzenesulfonyl fluoride
Molecular Weight	352.3
Chemical structure	
Molecular Formula	$C_{14}H_{13}FN_4O_4S$
SMILES	CCCN1C(=O)NC2=C(NC(=N2)C2=CC=C(C=C2)S(F)(=O)=O)C1=O
InChiKey	LDROORXQLOXQKW-UHFFFAOYSA-N
Licensing details	Sold under license from the Oncode Cancer Institute and Universiteit Leiden

References

Development of subtype-selective covalent ligands for the adenosine A(2B) receptor by tuning the reactive group.

Beerkens BLH et al (2022) RSC medicinal chemistry 13

PubMedID 35923720