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DATASHEET

Linagliptin

Product overview

Name	Linagliptin
Cat No	HB4637
Purity	>98%
Description	Highly potent, selective, competitive dipeptidyl-peptidase 4 inhibitor

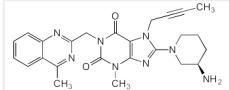
Biological Data

Biological description	Antidiabetic agent. Highly potent and selective competitive inhibitor of dipeptidyl-peptidase 4 (DPP4; DPP IV; CD26), an enzyme that degrades, glucagon-like peptide-1 (GLP-1) and glucose-dependent insulinotropic polypeptide (GIP). Prevents the inactivation of endogenous GLP-1 and GIP. Shown to restore beta cell function and survival in human isolated islets through GLP-1 stabilization. Improves insulin sensitivity. Anti-inflammatory compound.
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Solubility & Handling

Storage instructions	+4°C
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	8-(3-(R)-Aminopiperidin-1-yl)-7-but-2-ynyl-3-methyl-1-(4-methyl-quinazolin-2-ylmethyl)-3,7-dihdropurine-2,6-dione
Molecular Weight	472.5
Chemical structure	 The chemical structure of Linagliptin is a complex molecule. It features a purine core with a 3,7-dihydro group. Attached to the purine ring is a 4-methylquinazolin-2-ylmethyl group. A 3-(R)-aminopiperidin-1-yl group is attached to the 8-position of the purine ring. A 7-but-2-ynyl group is attached to the 7-position of the purine ring. There is also a methyl group on the 2-position of the purine ring.
CAS Number	668270-12-0
InChiKey	LTXREWYXXSTFRX-QGZVFWFLSA-N
Appearance	White to off-white solid