

Product Name	: Sitagliptin
Synonyms	: Sitagliptin; EC 690-730-1; HSDB 7516; HSDB7516; HSDB-7516; Januvia; LEZ 763
Cat No.	: M14629
CAS Number	: 486460-32-6
Molecular Formula	: C ₁₆ H ₁₅ F ₆ N ₅ O
Formula Weight	: 407.32
Chemical Name	: (R)-3-amino-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)butan-1-one
Description	Sitagliptin is a new oral hypoglycemic (anti-diabetic drug) of the new dipeptidyl peptidase-4 (DPP-4) inhibitor class of drugs. This enzyme-inhibiting drug is to be used either alone or in combination with metformin or a thiazolidinedione for control of type 2 diabetes mellitus. The drug works to competitively inhibit a protein/enzyme, dipeptidyl peptidase 4 (DPP-4), that results in an increased amount of active incretins (GLP-1 and GIP), reduced amount of release of glucagon (diminishes its release) and increased release of insulin.
Pathway	: Metabolic Enzyme/Protease
Target	: DPP
Receptor	: DPP-4
Solubility	: Soluble in Water
SMILES	: <chem>FC(C1=NN=C2CN(C(C[C@H](N)CC3=CC(F)=C(F)C=C3F)=O)CCN21)(F)F</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1.Herman GA, et al. Clin Pharmacol Ther. 2005 Dec;78(6):675-88.