



Recombinant Protein Technical Manual

Recombinant Human IPPI2/IDI2 Protein (His Tag)

RPES2729

Product Data:

Product SKU: RPES2729

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9BXS1

Protein Information:

Molecular Mass: 28.9 kDa

AP Molecular Mass: 28-31 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 1mM DTT, 0.1mM PMSF, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Isopentenyl-Diphosphate Delta-Isomerase 2; Isopentenyl Pyrophosphate Isomerase 2; IPP Isomerase 2; IPPI2; IDI2

Immunogen Information:

Sequence: Met 1-Val227

Background:

Isopentenyl Pyrophosphate Isomerase 2 (IDI2) belongs to the IPP isomerase type 1 family. Both isozymes, IDI1 and IDI2 are localized to the peroxisome by a PTS1-dependent pathway. IDI2 is expressed in skeletal muscle, which contains one nudix hydrolase domain. IDI2 binds one magnesium per subunit. IDI2 catalyzes the 1,3-allylic rearrangement of the homoallylic substrate isopentenyl (IPP) to its highly electrophilic allylic isomer, dimethylallyl diphosphate (DMAPP). It is reported that IDI2 is regulated independently from IDI1, by a mechanism that may involve PPAR- α .