



Recombinant Protein Technical Manual

Recombinant Human RNASET2 Protein (Human Cells, His Tag)
RPES5172

Product Data:

Product SKU: RPES5172

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: O00584

Protein Information:

Molecular Mass: 28.2 kDa

AP Molecular Mass: 40 kDa

Tag: C-His

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. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 20% Glycerol, pH7.5.

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

Application:

Synonyms: Ribonuclease T2;3.1.27. -;Ribonuclease 6;RNASE6PL

Immunogen Information:

Sequence: Asp25-His256

Background:

RNASET2 (ribonuclease T2) is an enzyme which belongs to the RNase T2 family. It is highly expressed in the temporal lobe and fetal brain. RNASET2 gene is a novel member of the Rh/T2/S-glycoprotein class of extracellular ribonucleases. This protein can be inhibited by Zn²⁺ and Cu²⁺. It has ribonuclease activity, with higher activity at acidic pH and is probably involved in lysosomal degradation of ribosomal RNA. Defects in RNASET2 are the cause of leukoencephalopathy cystic without megalencephaly. An infantile-onset syndrome of cerebral leukoencephalopathy. Affected newborns develop microcephaly and neurologic abnormalities including psychomotor impairment, seizures and sensorineural hearing impairment. The brain shows multifocal white matter lesions, anterior temporal lobe subcortical cysts, pericystic abnormal myelination, ventriculomegaly and intracranial calcifications.