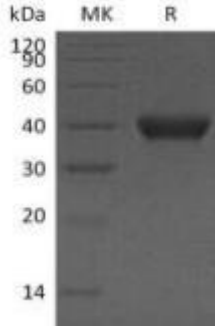


Recombinant Human Rnase T2/Ribonuclease T2(C-6His)

Catalog#:P01786 Derived from Human Cells

DESCRIPTION	Recombinant Human Ribonuclease T2 is produced by our Mammalian expression system and the target gene encoding Asp25-His256 is expressed with a 6His tag at the C-terminus. Accession#: O00584 Known as: Ribonuclease T2;3.1.27.-;Ribonuclease 6;RNASE6PL
FORMULATION	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 20% Glycerol, pH 7.5
SHIPPING	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
STORAGE	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
QUALITY CONTROL	Mol Mass: 28.2kDa AP Mol Mass: 38-45kDa, reducing conditions. Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
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 Zn ²⁺ and Cu ²⁺ . 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, pericyclic abnormal myelination, ventriculomegaly and intracranial calcifications.
SDS-PAGE	 <p>The SDS-PAGE gel shows a molecular weight marker (MK) on the left with bands at 120, 90, 60, 40, 30, 20, and 14 kDa. Lane R shows a single prominent band at approximately 38-45 kDa, corresponding to the expected molecular weight of the recombinant protein.</p>