

GZMK, 27-264aa, Human, His tag, E.coli**Cat.NO.: TP02384**

3th Edition

Synonyms: Granzyme K, TRYP2

Description: GZMK is a member of a group of related serine proteases from the cytoplasmic granules of cytotoxic lymphocytes. Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein described here lacks consensus sequences for N-glycosylation present in other granzymes. Recombinant human GZMK protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight: 28.2 kDa (261aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSIIGGKEVSPHSRPFMASIQYGGHHVCGGVLDLPQWVLTAHCQYRFTKGQS
PTVVLGAHSLSKNEASKQTLEIKKFIPFSRVTS DPQSNDIMLVKLQTA AKLNKHKMLHIRSKTSLRSGTKCKVTGW
GATDPDSLRLPSDTLREVTVTVLSRKLCNSQSYNGDPFITKDMVCAGDAKGQKDSCKGDSGGPLICKGVFHAIVSG
GHECGVATKPGIYTLLTKKYQTWIKSNLVPPHTN

Purity: > 95% by HPLC

Concentration: 0.5 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.