

Human GranzymeA/GZMA, Tag Free Protein

HA210916



Product name:	Human GranzymeA/GZMA, Tag Free
Species reactivity:	Human
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the human GranzymeA/GZMA protein (P12544-1) (Ile 29-Val 262) was expressed with with tag free.

Background: Granzyme A (GzmA, EC 3.4.21.78, CTLA3, HuTPS, T-cell associated protease 1, cytotoxic T lymphocyte serine protease, TSP-1, T-cell derived serine proteinase) is a tryptase and is one of the five granzymes encoded in the human genome. In humans, GzmA is encoded by the GZMA gene in proximity to the GZMK gene on chromosome 5. This enzyme is present in cytotoxic T lymphocyte (CTL) granules. GzmA cleaves proteins after arginine or lysine basic residues. In CTL-targeted cells, it activates caspase-independent programmed cell death pathways that are unique and parallel to that of Granzyme B, although some substrates such as PARP-1 and lamin B are shared with Granzyme B. Substrates of GzmA include Pro-IL-1 β , NDUFS3, SET, APE1, and Ku70 among others. In vitro studies suggest that GzmA may have less cytotoxic capabilities than GzmB. In colorectal cancer, GzmA was associated with promotion of cancer development, which may be due to activation of inflammation-inducing cytokines from macrophages.

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

Endotoxin: Less than 1.0 EU per μ g by the LAL method.

Fragment region: GranzymeA/GZMA (29-262)

Source: HEK293

Accession: P12544-1

Predicted molecular mass: 26.2 kD

Formulation: Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.

Reconstitution: Reconstitute at 250 μ g/ml in sterile water.

Storage: Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 $^{\circ}$ C to -80 $^{\circ}$ C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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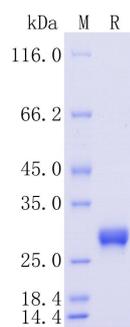


Fig1: Protein on SDS-PAGE under reducing (R) condition.

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