

Active Recombinant Mouse Histocompatibility 60a, Fc-tagged

Cat. No. H60a-5636M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse H60a protein was expressed in Murine myeloma cell line with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Mouse H60a Asp30-Gln212 (N-terminus).
Species	Mouse
Source	Mammalian Cells
Protein Length	30-212 a.a.
Description	H60a was originally described as an immunodominant histocompatibility antigen that is expressed in BALB mice but not in B6 mice. More recently it was reported to function as a ligand for mouse NKG2D, an activating receptor found on NK cells, on some T cell subsets, and on stimulated macrophages. H60a shares approximately 25 percent amino acid identity with the Rae-1 family, a small group of proteins that also function as ligands for mouse NKG2D. H60a and the Rae-1 proteins are distantly related to MHC class I proteins, but they possess only the $\alpha 1$ and $\alpha 2$ Ig-like domains, and have no capacity to bind peptide or interact with $\beta 2$ -microglobulin.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS.
N-terminal Sequence	Asp30
Molecular Weight	47.8 kDa (monomer)

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Activity	Measured by its ability to bind to immobilized rmNKG2D/Fc Chimera in a functional ELISA.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	75-90 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	H60a histocompatibility 60a [Mus musculus]
Official Symbol	H60a
Synonyms	H60a; histocompatibility 60a; H60; histocompatibility 60; Histocompatibility antigen 60a
Gene ID	15101
mRNA Refseq	NM_010400
Protein Refseq	NP_034530
UniProt ID	Q3TDZ7

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Chromosome Location	10
Pathway	Natural killer cell mediated cytotoxicity
Function	natural killer cell lectin-like receptor binding

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