Recombinant Mouse B2M / Beta-2-microglobulin Protein (His tag)

Cat.NO.: TP06797

3th Edition

Synonyms:beta2-m;beta2m;Ly-m11

Description:B2M, also known as ?2-Microglobulin or CDABP0092, is a component of MHC class I molecules found expression in all nucleated cells (excludes red blood cells). The major function of MHC class I moleculesis is to display fragments of proteins from within the cell to T-cells and cells containing foreign proteins will be attacked. B2M(?2-Microglobulin) is a low molecular weight protein. It was demonstrated that B2M(?2-Microglobulin) was localized in the membranes of nucleated cells and was found to be associated with HL-A antigens.B2M(?2-Microglobulin) is present in free form in various body fluids and as a subunit of histocompatibility antigens on cell surfaces lateral to the?3 chain. Unlike?3, ?2 has no transmembrane region. Directly above ?2 lies the ?1 chain, which itself is lateral to the ?2. In the absence of B2M(?2 microglobulin), very limited amounts of MHC class I (classical and non-classical) molecules can be detected on the surface. In the absence of MHC class I, CD8 T cells, a subset of T cells involved in the development of acquired immunity cannot develop. Low levels of B2M(?2 microglobulin) can indicate non-progression of HIV.

Form:PBS

Molecular Weight:13 kDa

Sequences: Met 1-Met 119

Purity:> 95% by HPLC

Concentration:

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.