

RUNX1 Protein, Rat, Recombinant (His & Myc)

General Information

Synonyms:	Cbfa2;Aml1;Runx1;Polyomavirus enhancer-binding protein 2 alpha B subunit (PEA2-alpha B; PEBP2-alpha B);Acute myeloid leukemia 1 protein;Runt-related transcription factor 1; Oncogene AML-1;Core-binding factor subunit alpha-2 (CBF-alpha-2)
Protein Construction:	1-450 aa
Species:	Rat
Expression Host:	Baculovirus Insect Cells
Accession:	Q63046
Molecular Weight:	52.4 kDa (predicted)
AA Sequence:	MRIPVDASTSRRFTPPSTALSPGKMSEALPLGAPDGGAALASKLRSGDRSMVEVLADHPGELVRTDSPNFLCS VLPTHWRCNKTLPIAFKVVVALGDVDPDGLTVTMAGNDENYSaelRNATAAMKNQVARFNDLRFVGRSGRG KSFTLTITVFTNPPQVATYHRAIKITVDGPREPRRHRQKLDQTKPGSLSFSERLSELEQLRRTAMRVSPHHPA PTPNPRASLNHSTAFNPQPQSQMQDARQIQSPPPWSYDQSYQYLGSISSVHPATPISPGRASGMTSLSAEL SSRLSTAPDLTAFGDPRQFPTLPSISDPRMHYPGAFTYSPVTSIGIGIMSAMSSTSRHYHTYLPPPYPGSSQAQ AGPFQTGSPSYHLYYGTSAGSYQFSMVGGERSPRILPPCTNASTGAALLNPSLPSQSDVVETEGSHNSPTN MPPARLEEAVWRPY

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CBF binds to the core site, 5'-PYGPYGGT-3', of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, LCK, IL-3 and GM-CSF promoters. The alpha subunit binds DNA and appears to have a role in the development of normal hematopoiesis. Isoform AML-1L interferes with the transactivation activity of RUNX1. Acts synergistically with ELF4 to transactivate the IL-3 promoter and with ELF2 to transactivate the BLK promoter. Inhibits KAT6B-dependent transcriptional activation. Controls the anergy and suppressive function of regulatory T-cells (Treg) by associating with FOXP3. Activates the expression of IL2 and IFNG and down-regulates the expression of TNFRSF18, IL2RA and CTLA4, in conventional T-cells. Positively regulates the expression of RORC in T-helper 17 cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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