

Recombinant RARA protein

Catalog No: 82155, 82755

Expressed In: Baculovirus

Quantity: 20, 1000 µg

Source: Human

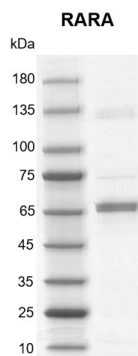
Buffer Contents: Recombinant RARA protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.

Background: RARA (Retinoic Acid Receptor Alpha) is a ligand-dependent nuclear receptor and transcription factor that plays a central role in mediating the effects of retinoic acid, a critical derivative of vitamin A. It regulates gene networks essential for cell growth, differentiation, embryonic development, and apoptosis. As a master regulator of myeloid cell differentiation, its function is frequently disrupted in acute promyelocytic leukemia (APL) through chromosomal translocations, most commonly forming the PML-RARA oncoprotein. Therefore, **RARA** is not only a key developmental regulator but also a critical therapeutic target, with all-trans retinoic acid (ATRA) serving as a paradigm for targeted differentiation therapy in cancer.

Protein Details: Recombinant RARA protein was expressed in baculovirus expression system as the full length protein (accession number NP_000955.1) with a N-terminal FLAG tag. The molecular weight of the protein is 52.04 kDa.

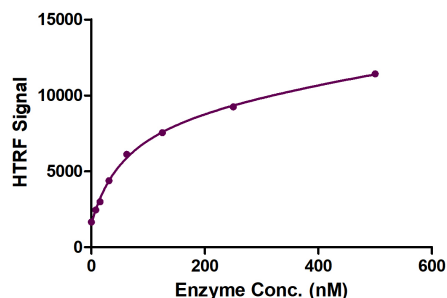
Application Notes: This product was manufactured as described in Protein Details. Where possible, Active Motif has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for this product is shown.

Storage and Guarantee: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. This product is for research use only and is not for use in diagnostic procedures. This product is guaranteed for 6 months from date of arrival.



Recombinant RARA protein gel
4-20% SDS-PAGE gel
MW: 52.04 kDa
Purity: >90%

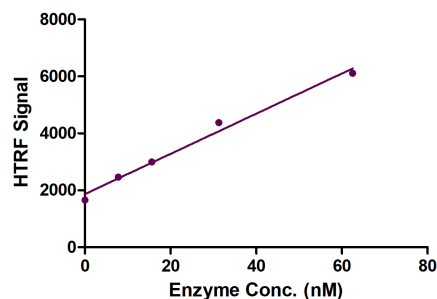
RARA Titration



HTRF Assay for Recombinant RARA activity.

1 μ M substrate dsDNA (5' biotin-CAGAGGTCATGGAAAGGTCATC 3') was incubated with different concentrations of RARA protein in reaction buffer containing 50 mM HEPES-NaOH pH 7.0, 0.1% BSA at room temperature for 1 hour . Anti-FLAG antibody was used to detect reaction products HTRF assay was used for detection

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