



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet Recombinant Retnoid Acid Receptor Alpha

Catalog No.
228-11361

Source
Escherichia Coli

Synonyms

Retinoic acid receptor alpha, RAR-alpha, Nuclear receptor subfamily 1 group B member 1, RAR, NR1B1, RARA.

Introduction

Retinoic acid receptor alpha (RAR) belongs to the large family of ligand responsive gene regulatory proteins that includes receptors for steroid and thyroid hormones. These proteins contain two highly conserved domains that are involved in determining their DNA and ligand-binding activities. There are three isotypes of RAR proteins: alpha, beta, and gamma. The RAR proteins are encoded by distinct genetic loci and possess distinct transcriptional properties. Typically, RAR-alpha represses target gene transcription in the absence of hormone, whereas RAR-beta and gamma fail to repress under these conditions. RARA is a receptor for retinoic acid that has profound effects on vertebrate development. Retinoic acid is a morphogen and is a powerful teratogen. RARA controls cell function by directly regulating gene expression.

Chromosomal aberrations involving RARA cause acute promyelocytic leukemia (APL).

Description

Retinoic-Acid Receptor Alpha Human Recombinant fused to N-terminal His-Tag produced in E.Coli is a single, non-glycosylated polypeptide chain containing 127 amino acids and having a molecular mass of 14 kDa.

Physical Appearance

Sterile Filtered colorless clear solution.

Formulation

The protein solution contains 20mM Tris pH-7.5, 0.1M NaCl & 5mM b-ME.

Purity

Greater than 95.0% as determined by

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Stability

RARA although stable at 4°C for 4 weeks, should be stored desiccated below -18°C.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.

Amino Acid Sequence

MGSSHHHHHH SSGLVPRGSH MSEEIVPSPP SPPPLPRIYK PCFVCQDKSS
GYHYGVSACE GCKGFFRRSI QKNMVYTCR DNKCIINKVT RNRCQYCRLQ
KCFEVGMSKESVRNDRNKKK KEVPKPE.

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