RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant Human Tyr-3/Trp-5 Monooxygenase Activation Protein, ETA

Catalog No.	**Source**
228-11656	*Escherichia Coli.*

Synonyms

14-3-3 ETA, YWHAH, YWHA1, Protein AS1, Tyr-3/Trp-5 Monooxygenase Activation Protein ETA.

Introduction

YWHAH belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. 14-3-3 ETA is found in plants and mammals, and there is 99% identity to the mouse, rat and bovine orthologs. YWHAH gene contains a 7 base pair repeat sequence in its 5' UTR, and changes in the number of this repeat has been associated with early-onset schizophrenia. 14-3-3 eta is specific to the site of joint inflammation.
14-3-3 proteins are colocalized with Lewy bodies in Parkinson disease, though there is no specific staining for the 14-3-3 eta subunit.
There are 3 different isoforms types of 14-3-3: Beta, Gamma and ETA that are DAL-1/Protein 4.1B-binding proteins.

Description

YWHAH Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 266 amino acids and having a molecular mass of 30.3 kDa.
YWHAH is fused to N-Terminus His Tag and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

YWHAH solution containing 20mM Tris pH-8.

Purity

Greater than 95.0% as determined by
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

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Stability

YWHAH Human Recombinant although stable at 4°C for 1 week, should be stored desiccated below -18°C.

Please prevent freeze thaw cycles.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGDREQLLQR ARLAEQAERY DMASAMKAV
TELNEPLSNE DRNLLSVAYK NVVGARRSSW RVISSIEQKT MADGNEKKLE
KVKAYREKIE KELETVCNDV LSLLDKFLIK NCNDFQYESK VFYLKMKGDY
YRYLAEVASG EKKNSVVEAS EAAYKEAFEI SKEQMQPTHP IRLGLALNFS
VFYYEIQNAP EQACLLAKQA FDDAIAELDT LNEDSYKDST LIMQLLRDNL
TLWTSDQQDE EAGEGN.