



Product Datasheet

Product Name	Actin Gamma 1 Human Recombinant
Cata No	CB500998
Source	<i>Escherichia Coli.</i>
Synonyms	Actin cytoplasmic 2, Gamma-actin, ACTG1, ACTG, ACT, DFNA20, DFNA26, Actin Gamma 1.

Description

Actins are highly conserved proteins that are involved in various types of cell motility, and maintenance of the cytoskeleton. In vertebrates, three main groups of actin isoforms, alpha, beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins co-exist in most cell types as components of the cytoskeleton, and as mediators of internal cell motility. Actin, gamma 1, encoded by this gene, is a cytoplasmic actin found in nonmuscle cells. Actin Gamma 1 Human Recombinant produced in E.Coli is a non-glycosylated, polypeptide chain containing amino acids (1-375) and having a total molecular mass of 41.8 kda. ACTG1 contains T7 tag at N-terminus and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Formulation

Actin Gamma 1 at a concentration of 2 mg/ml in 10mM Tris, pH 8.0, 0.1% Triton X-100 and 0.002% NaN₃.

Stability

ACTG-1 although stable at 4°C for 1 week, 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.

Applications

- ELISA
- MS
- Inhibition Assays
- Western Blotting