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DATASHEET

Pyrene Actin (10%)

From rabbit skeletal muscle (α-skeletal muscle actin, >99% purity)

For Use in Research Only.

Not for Use in Diagnostic Processes.

Quantity: 1x1.0mg / 5x1.0mg / 10x1.0mg

Cat. #.: 8102-01

Product Description

G-actin from rabbit skeletal muscle is a single chain polypeptide with a molecular weight of 42kD consisting of 375 amino acids. Pyrene Actin is chemically modified G-actin carrying a pyrenyl group covalently bound to Cys374 at the C-term of the molecule. Pyrene Actin (10%) contains 10% of pyrenyl actin with a dye/protein molar ratio of 1.0.

The product is supplied as a lyophilized powder containing 2mM Tris-Cl pH 8.2, 0.4mM ATP, 0.5mM DTT, 0.1mM $CaCl_2$, 1mM NaN_3 and 0.3% disaccharides, when reconstituted with 1ml H_2O . For dilution of Pyrene G-actin or exchange of ligand buffer into an actin compatible buffer, MonoMix (Cat.#: 5100-01) may be used. In the absence of nucleators, the polymerization of G-actin can be initiated by PolyMix (Cat.#: 5000-01).

Due to a proprietary cryoconservation technique this highly soluble Pyrene Actin is of excellent biological activity and quality.

Product Handling

Preparation of a working stock

Example: add 1ml of H_2O to the tube with 1mg Pyrene Actin to obtain a stock solution of 1mg/ml (24 μ M). A stock concentration of 4mg/ml (96 μ M) should not be exceeded to avoid spontaneous polymerization. Allow the G-actin solution to rehydrate for 2min at room temperature and dissolve using a pipette. If Pyrene Actin is used for polymerization with PolyMix (Cat.#: 5000-0*), we recommend to prepare a G-actin stock of 1.1mg/ml (26 μ M), as addition of PolyMix will dilute the G-actin/F-actin stock to a final concentration of 1mg/ml (24 μ M).

For fluorometrical measurements Pyrene Actin may be dialyzed O/N against 50-100vol. of MonoMix or a G-actin compatible buffer and subsequently centrifuged at 100.000xg for 60min to remove any aggregates from freeze-drying.

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For product inquiries please contact:

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Product Storage and Stability

Store this product at -70° upon arrival, where it will be stable for at least 6 months. Once dissolved Pyrene Actin is kept on ice protected from light and will be stable for at least 4 days. Avoid refreezing of Pyrene Actin solutions.

Selection of Related Products

Product	Quantity	Cat. #
Actin (alpha-Actin skeletal muscle, rabbit)	4x250μg	8101-01
Actin (alpha-Actin skeletal muscle, rabbit)	1x1.0mg	8101-03
Atto488-Actin (alpha-Actin skeletal muscle, rabbit)	1x100µg	8153-01
Atto488-Actin (alpha-Actin skeletal muscle, rabbit)	5x100μg	8153-02
Pyrene-Actin 100% (alpha-Actin skeletal muscle, rabbit)	1x1.0mg	8112-01
PolyMix (10x) F-actin buffer	1x1.0ml	5000-01
ME-Buffer (10x) Magnesium Exchange Buffer	2x1.0ml	5111-01
KMEI-Buffer (10x) Magnesium Exchange Buffer	2x1.0ml	5030-01

More products and further information on www.hypermol.com. We welcome your visit!

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