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Product Information

Heat Shock Protein 90
from bovine brain

Catalog Number **H6774**
Storage Temperature –20 °C

Synonym: HSP 90

Product Description
Adverse changes in the environment induce, in all organisms, expression of proteins that are called Stress Proteins or Heat Shock Proteins (HSP). Many of these proteins are formed in the cell even without shock induction. There are remarkable sequence homologies between stress proteins from organisms as distant as *E. coli* and humans.

The major HSPs can be grouped by size into three classes: 15–30 kDa, ~70 kDa, and 80–105 kDa. A member of the latter group, HSP 90, is found in many mammalian tissues and can constitute up to 1–2% of the total cytosolic protein. Mammalian HSP 90 has an affinity for steroid receptors, actin, nucleotides, etc., suggesting an important, multifunctional role *in vivo*.

The product is a lyophilized powder containing 5–15% protein in Tris buffer salts.

Purity: ≥95% (SDS-PAGE)

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions
The product is soluble in water (0.5 mg/ml).

Storage/Stability
It is recommended to store the product at –20 °C. The product as supplied remains active for 2 years when stored properly.

References
1. Yonezawa, N. et al., Eur. J. Biochem., **177**, 1-7 (1988).
2. Csermely, P., and Kahn, C.R., J. Biol. Chem., **266**, 4943-4950 (1991).

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