

Glycylglycine



Hamari Chemicals USA
San Diego Research Center

Features

- ✓ **Biotech industry:** excellent buffer for solubilizing proteins, liposomes, nanotubes and other macromolecules
- ✓ **Hair care market:** moisturizing spray for smooth, soft, supple hair
- ✓ **Skin care market:** topical products for tightening conspicuous facial pores
- ✓ made in Japan under high quality, strict GMP standards
- ✓ ethyl alcohol used as the final processing solvent
- ✓ can support your customized quality specifications requirements
- ✓ can support your needs for endotoxin testing

Method of Action

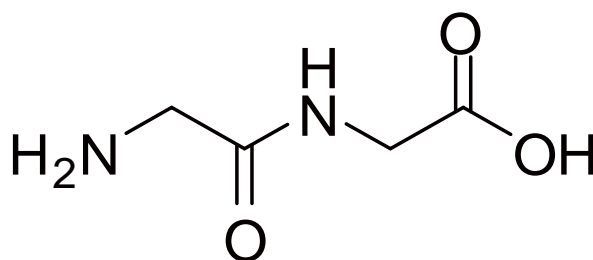
Glycylglycine (Glygly) is a low toxicity peptide. **In the biotech industry,** Glygly is used as a buffer for biological systems especially in solubilizing proteins, liposomes, nanotubes and other macromolecules. **In the cosmetics market,** Glygly emulsifying property is commercialized in various moisturizing **hair care sprays** for smooth, soft, supple hair. Moreover, Glygly is also marketed as **topical skin care products** to tighten conspicuous facial pores by alleviating roughness around pores formed from excessive skin oil and dryness.

Glycylglycine Specification Sheet

I. Substance

IUPAC Name: Glycylglycine
Peptide Name: Gly-Gly
Chemical Notation: $\text{H}_2\text{NCH}_2\text{CONHCH}_2\text{COOH}$

CAS No. 556-50-3
Chemical Formula: $\text{C}_4\text{H}_8\text{N}_2\text{O}_3$
Formal Weight: 132.12



II. Quality Specifications

No.	Test Name	Specification Limits
1	Solubility in water	Clear and colorless (c=5)
2	Loss on drying	Not more than 0.3%
3	Residue on ignition (as sulfate)	Not more than 0.1%
4	Chloride (Cl)	Not more than 0.02%
5	Sulfate (SO_4)	Not more than 0.02%
6	Heavy metals (as Pb)	Not more than 10 ppm
7	Iron (Fe)	Not more than 10 ppm
8	Arsenic (As_2O_3)	Not more than 1 ppm
9	Other amino acids	Not detected by T.L.C. (spotted amount, 50 μg)
10	Assay	99.0% to 101.0%

III. Test Standards

General tests performed according to the Japanese Pharmacopoeia

IV. Package Size: 1 kg, 5 kg, 10 kg and 50 kg



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