CHEMICALLY DEFINED PEPTIDES IN BIOPHARMA CELL CULTURE

Optimized cellular nutrition for greater performance

Animal cell culture enables the production of biotherapeutics to prevent, treat and cure disease

THERAPEUTIC PROTEINS

VACCINES & GENE THERAPIES

CELL BASED THERAPIES

Optimized nutrient supply is key to successful cell culture and efficient production of high-quality biotherapeutics

THE CELL CULTURE CHALLENGE

KEY AMINO ACIDS HAVE LIMITATIONS

As building blocks of proteins, amino acids are essential culture media ingredients. But their low stability (L-glutamine) and solubility (L-tyrosine and L-cystine) limit bioprocess productivity.

CURRENT MITIGATION STRATEGIES MISS THE MARK

- Freshly prepared solutions
- Extreme pH to improve solubility
- Process with several feeds

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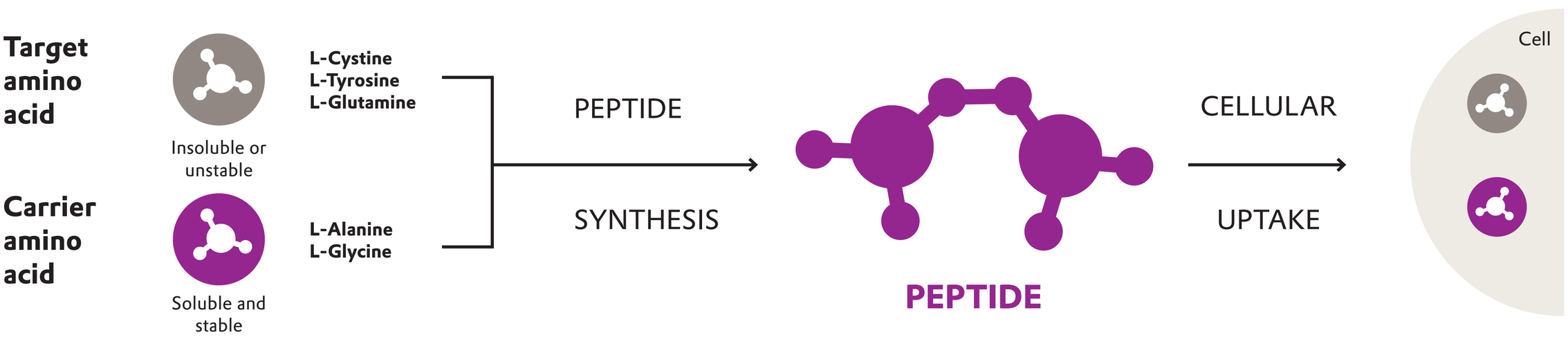
- Increased costs
- Increased risks
- Higher process complexity

Solution to the stability and solubility challenges: the cQrex® peptides

cQrex® PEPTIDES

Spice up your media formulation with the cQrex® peptides: non-animal-derived and chemically defined ingredients for optimized nutrition in biopharma cell culture.



GLUTAMINE PEPTIDES
cQrex® AQ L-Alanyl-L-Glutamine
cQrex® GQ Glycyl-L-Glutamine

TYROSINE PEPTIDES
cQrex® AY L-Alanyl-L-Glutamine
cQrex® GY Glycyl-L-Tyrosine

CYSTINE PEPTIDE
cQrex® AC N,N'-di-L-Alanyl-L-Cystine

cQrex®

PROCESS INTENSIFICATION

- Higher concentration of ingredients
- Smaller media/feed volumes

INCREASED PRODUCTIVITY

- Reduced by-product accumulation
- Bioreactor used at its full capacity

PROCESS SIMPLIFICATION

- Feed with neutral pH
- Reduced number of feeds

EVONIK
Leading Beyond Chemistry