

Plant Protein

Nurturing pets *and* our planet

At Benson Hill, we contribute to a nature-positive food system that feeds people and animals. Climate-conscious caretakers are looking for pet food that nourishes *and* nurtures both pets *and* the planet.



Premium food for 'pet foodies'

People feed their pets like family. Nutritious plant-based proteins help enable the creation of premium 'food with purpose' categories.



Authentic sustainability benefits

Emissions from plant-based foods are half those of animal-based ones¹, and 51% of pet owners are willing to pay more for sustainable products². They also want transparency in areas such as regenerative agriculture and water stewardship.

So what could adding a nutritious plant-based protein with proven sustainability benefits³ do for your brand?



Nurturing pets

Up to 20% more protein* right from the ground

compared to typical commodity U.S. soybeans

Complete protein





















with all nine essential amino acids

Low oligosaccharides

typically contains <1% stachyose
and <0.5% raffinose

Nutritious, non-GMO⁴ plant-based protein from soybeans

Soy is an excellent source of protein that complements other proteins and grains. Our soy ingredients come from beans with up to 20% more protein*, so all our pet food ingredients have least **55% or 60% protein on a dry matter basis**.

Product	Description	Dry	Wet	Injection /treats	Footprint/kg protein:	
					CO ₂ e	Water
 FLAKE SOY PROTEIN	20, 70, 90 PDI. Compatible with various pre-extrusion technologies				0.44kg	0.40L
 GRITS SOY PROTEIN	20,70,90 PDI in a variety of grit sizes					
 FLOUR SOY PROTEIN	20,70,90 PDI in a variety in 100 and 200 mesh sizes, compatible with various pre-extrusion technologies				0.46kg	0.41L
 TEXTURED SOY PROTEIN	Available in a variety of shapes and colors					
 SOY MEAL	High protein and low oligosaccharides				0.42kg	0.38L

PDI = Protein Dispersibility Index. Protein Dispersibility Index is a common quality control in the soy industry. It measures the protein solubility in controlled conditions and is used to estimate the degree of denaturation of soy proteins. PDI index can be a good indicator of soy protein processability and potential applications (feed, functional ingredients or extrusion).

* Benson Hill has developed varieties of soybeans that deliver at least 20% more protein compared to commodity U.S. soybeans. Other varieties may contain different amounts of protein.

Setting the pace of innovation in food

At Benson Hill, we set the pace of innovation in food. It's how we deliver on our promise to enable more nourishing, sustainable food. Our CropOS[®] food innovation engine combines data science, machine learning, biology and genetics. The result is better varieties; high in protein and with consumer-friendly nutrition and flavor profiles. CropOS takes the guesswork out of breeding so we can get sustainable protein ingredients to market faster and keep on setting the pace of innovation in food.

1. Xu, X., Sharma, P., Shu, S. et al. Global greenhouse gas emissions from animal-based foods are twice those of plant-based foods. *Nat Food* 2, 724–732 (2021). 2. American Pet Products Association (APPA) 2021-2022 National Pet Owners Survey. 3. When comparing Benson Hill proprietary soy protein products to typical commodity soy protein concentrate based on preliminary data from LCA conducted by Blonk Consultants (2021) and GFLI database. 4. The Non-GMO program is based on Non-GMO sources of origin, with full documentation through all steps of sowing, harvesting, storage, transportation, all stages of processing, and contains a maximum of 0.9% adventitious residual GMO material. Find out more in Benson Hill's ESG Report (<https://bensohill.com/wp-content/uploads/2022/08/2021-Benson-Hill-ESG-Report-20220808.pdf>).

Contact us at sales@bhingredients.com to find out more about how our ingredients can help you nurture pets and our planet.

BENSON HILL
PET FOOD INGREDIENTS

Nurturing our planet

Up to 50% lower CO₂e emissions³

meeting the demands of climate-conscious consumers

Up to 70% less water use³

to support water stewardship

58% no/reduced till

implemented by our growers in the
2022 growing season