

## Feature

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One-hot encoding of the residue symbol

Position-specific scoring matrix (PSSM)

Whether the residue is aliphatic

Whether the residue is aromatic

Whether the residue is polar neutral

Whether the residue is acidic charged

Whether the residue is basic charged

Residue weight

The negative of the logarithm of the dissociation constant for the  $\text{-COOH}$  group<sup>64</sup>

The negative of the logarithm of the dissociation constant for the  $\text{-NH}_3$  group<sup>64</sup>

The negative of the logarithm of the dissociation constant for any other group in the molecule<sup>64</sup>

The pH at the isoelectric point<sup>64</sup>

Hydrophobicity of residue (pH = 2)<sup>65</sup>

Hydrophobicity of residue (pH = 7)<sup>66</sup>